Reshma Shetty co-founded synthetic biology Ginkgo Bioworks, Inc. in 2008. Spun out of MIT, Ginkgo's mission is to make biology easier to engineer. Started in a Cambridge, MA apartment, Reshma has helped to grow the company to 50 people and raised $50M in financing. In Spring 2015, Ginkgo launched Bioworks1, its 18,000 square foot facility for design, fabrication and testing of custom designed microbes. Ginkgo is concurrently engineering more than 20 organisms to spec for customers.

Reshma has been active in the field of synthetic biology for 10+ years and co-organized SB1.0, the first international conference in synthetic biology in 2004. In 2005, Reshma and colleagues founded OpenWetWare.org, a wiki for the free sharing of information among biological and biological engineering researchers. In 2006, she was an advisor to the international Genetically Engineered Machines (iGEM) competition where she was best known for engineering bacteria to smell like bananas and mint. In 2008, Forbes magazine named Reshma one of Eight People Inventing the Future and in 2011, Fast Company named her one of 100 Most Creative People in Business. In 2014, Ginkgo became the first biotech company to participate in YCombinator.

Reshma Shetty has a B.S. degree in Computer Science from the University of Utah and a Ph.D. in Biological Engineering from MIT. As a graduate student, Reshma's research was supported by the National Science Foundation Graduate Research Fellowship, the Whitaker Graduate Fellowship in Biological Engineering and the Andrew and Edna Viterbi Fellowship in Computational Biology. As an undergraduate, Reshma was supported by the Barry M. Goldwater Scholarship, the Beckman Undergraduate Research Fellowship, the Pfizer Undergraduate Research Fellowship and the University of Utah Presidential Scholarship.